TPMC813   LON Interface with Neuron Chip 3150

Application Information

The TPMC813 is a standard single-width 32 bit PMC module providing a complete LON interface using the Neuron chip 3150. The communication is executed via a 4 Kbytes Dual Port RAM. A 32 Kbytes EPROM is used to store the protocol firmware of the Neuron chip 3150 and the application program.

Four kinds of on board physical interface are available: the TPMC813-1x supports standard RS485, the TPMC813-20x provides transformer coupled 1.25 Mbit interface, the TPMC813-21x supports transformer coupled 78 Kbit interface and the TPMC813-3x provides the free topology twisted pair interface based on the ECHELON FTT-10A transceiver.
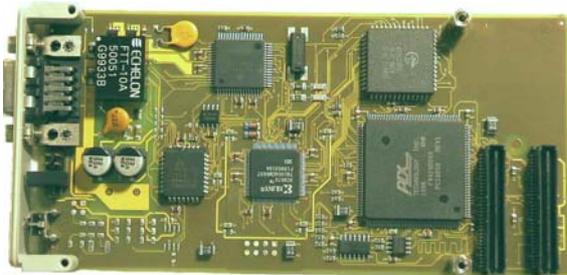

For First Time Users the Engineering Documentation TPMC813-ED is recommended. The Engineering Documentation includes TPMC813-DOC, schematics and data sheets.

Software Support (TPMC813-SW-xx) for different operating systems is available.

Technical Information

❍ Standard single-width 32 bit PMC module conforming to IEEE P1386.1
❍ PCI 2.1 compliant interface
❍ Board size: 149 mm x 74 mm
❍ LON interface based on Neuron chip 3150
❍ 4 Kbytes Dual Port RAM
❍ 32 Kbytes EPROM for protocol firmware and application
❍ Physical interface RS485 transceiver or transformer coupled (1.25 Mbit or 78 Kbit) and FTT-10A transceiver
❍ Complete network communication port of the neuron chip available at front panel
❍ MIP / DPR license included

09/2009
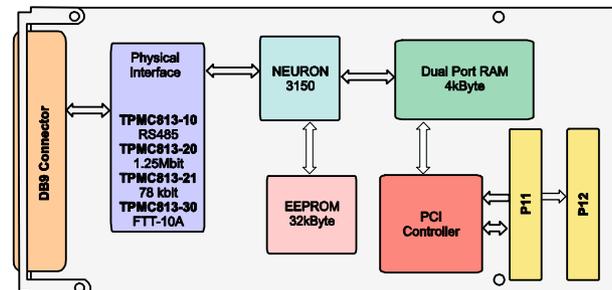
Order Information

RoHS Compliant

TPMC813-10R   LON Interface RS485
TPMC813-20R   LON Interface, 1.25 Mbit, transformer coupled
TPMC813-21R   LON Interface, 78 kBit, transformer coupled
TPMC813-30R   LON Interface, FTT-10A Transceiver

None RoHS Compliant

TPMC813-10   None RoHS compliant version of TPMC813-10R
TPMC813-20   None RoHS compliant version of TPMC813-20R
TPMC813-21   None RoHS compliant version of TPMC813-21R
TPMC813-30   None RoHS compliant version of TPMC813-30R

Documentation

TPMC813-DOC   User Manual
TPMC813-ED   Engineering Documentation, includes TPMC813-DOC

Software

TPMC813-SW-25   Integrity Software Support
TPMC813-SW-42   VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TPMC813-SW-65   Windows XP/XPE/2000 Software Support
TPMC813-SW-72   LynxOS Software Support
TPMC813-SW-82   LiNUX Software Support
TPMC813-SW-95   QNX 6 Software Support

For other operating systems please contact TEWS.